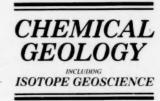


Chemical Geology 116 (1994) 345-346



## Contents Volume 116, 1994

VOL. 116, NOS. 1-2

Research Papers	
Non-linear properties of supercooled liquids in the system Na <sub>2</sub> O-SiO <sub>2</sub>	
R. Knoche, D.B. Dingwell, F.A. Seifert and S.L. Webb.	1
An experimental calibration of oxygen isotope fractionation between calcite and forsterite in the presence of a CO <sub>2</sub> -H <sub>2</sub> O	)
fluid	
YF. Zheng, P. Metz, M. Satir and Z.D. Sharp	17
Modelling the growth of natural diamonds	
S.R. Boyd, F. Pineau and M. Javoy	29
A preliminary study of <sup>15</sup> N/ <sup>14</sup> N in octahedral growth form diamonds	
S.R. Boyd and C.T. Pillinger	43
Geochronology and mass transfer in Gulf Coast mudrocks (south-central Texas, U.S.A.): Rb-Sr, Sm-Nd and REE systematics	
D.N. Awwiller	61
Hydrothermal activity in the Northern Tanganyika Rift, East Africa	
C. Pflumio, J. Boulègue and JJ. Tiercelin	85
Interaction of metals with mineral surfaces in a natural groundwater environment	
Y.E. Freedman, M. Magaritz, G.L. Long and D. Ronen	111
Geochemistry and solid-phase association of chromium in sediment from the Calcasieu River and estuary, Louisiana,	
U.S.A.	
N.S. Simon, C. Demas and W. D'Angelo	123
Pore-water indicators of rainwater-dominated versus groundwater-dominated peat bog profiles (Jura Mountains, Switzerland)	
W. Shotyk and P. Steinmann	137
Mg, Sr and Na fluctuations in the test of modern and recent Globigerina bulloides	
C. Puechmaille	147
Isotope Geoscience Section	
Technical Note	
An on-line experimental/analytical method for measuring the kinetics of oxygen isotope exchange between CO <sub>2</sub> and saline/hypersaline salt solutions at low (25-50°C) temperatures  S.M. Fortier	155
	200
VOL. 116, NOS. 3–4	
Research Papers	
U-Th-Ra systematics in Kilauea and Mauna Loa basalts, Hawaii	
C. Hémond, A.W. Hofmann, G. Heusser, M. Condomines, I. Raczek and J.M. Rhodes	163

lon-pairing in aqueous MgSO <sub>4</sub> solutions along an isochore to 500°C and 11 kbar using Raman spectroscopy in conjunction with the diamond-anvil cell	
J.D. Frantz, J. Dubessy and B.O. Mysen	181
Hydrothermal experiments and thermo-kinetic modelling of water-sandstone interactions	
C. Bertrand, B. Fritz and J.F. Sureau	. 189
Major- and minor-element mobilization, with implications for Ni-Cu-Fe-sulphide remobilization, during retrograde metasomatism at the Vammala Mine, southwest Finland	
B. Marshall and F. Mancini	. 203
Geochemical characterization of sedimentary basins by statistical analysis: The Mio-Pliocene sequences of the Vera Basin, SE Spain	
A.Sánchez Bellón, C. Mosser, C. Roquin and E.Sebastián Pardo	. 229
The Indus river system (India-Pakistan): Major-ion chemistry, uranium and strontium isotopes	
K. Pande, M.M. Sarin, J.R. Trivedi, S. Krishnaswami and K.K. Sharma	. 245
Formation of fine-grained metal and silicate precipitates on a bacterial surface (Bacillus subtilis)	
M.M. Urrutia and T.J. Beveridge	. 261
Experimental simulation of oil migration — Distribution effects on organic compound groups and on metal/metal ratios T. Greibrokk, E. Lundanes, H.R. Norli, K. Dyrstad and S.D. Olsen	. 281
Erratum	. 301
Isotope Geoscience Section	
Research Papers	
Variations of the oxygen isotope fractionation between NaCO <sub>3</sub> and water due to the presence of NaCl at 100-300°C S.R. Poulson and M.A.A. Schoonen	305
Preferential diffusion of <sup>35</sup> Cl relative to <sup>37</sup> Cl in sediments of Kau Bay, Halmahera, Indonesia	. 505
H.G.M. Eggenkamp, J.J. Middelburg and R. Kreulen	317
Precambrian multi-stage crustal evolution in the Bamble sector of south Norway: Pb isotopic evidence from a	317
Sveconorwegian deep-seated granitic intrusion	
T. Andersen, P. Hagelia and M.J. Whitehouse	327
1. Individuit 1. 1. 1. 1. Individual in in in interioration in interiorati	541
Contents Volume 116, 1994	345